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(Ed.)

Millimeter and Submillimeter Wave Spectroscopy of Solids



Springer

Millimeter And Submillimeter Wave Spectroscopy Of Solids Topics In Applied Physics

Michael Brown



Millimeter And Submillimeter Wave Spectroscopy Of Solids Topics In Applied Physics:

Millimeter and Submillimeter Wave Spectroscopy of Solids George Grüner, C. Dahl, 1998-09-11 Millimeter and Submillimeter Wave Spectroscopy of Solids focuses on the experimental methods and recent experimental results which are currently employed in the millimeter wave spectral range Time domain Fourier transform coherent source and resonant techniques are discussed by leading authorities in the field The usefulness of the methods is discussed by reviewing experimental results on metals and semiconductors Recent experiment covering modern topics such as correlation on metals superconductors and confined quantum systems are also discussed The volume is aimed at physicists engineers and materials scientists interested in the dynamics of solid matter

Spin-Wave Theory and its Applications to Neutron Scattering and THz Spectroscopy Randy S Fishman, Jaime A Fernandez-Baca, Toomas Rõõm, 2018-11-05 Two of the most powerful tools used to study magnetic materials are inelastic neutron scattering and THz spectroscopy Because the measured spectra provide a dynamical fingerprint of a magnetic material those tools enable scientists to unravel the structure of complex magnetic states and to determine the microscopic interactions that produce them This book discusses the experimental techniques of inelastic neutron scattering and THz spectroscopy and provides the theoretical tools required to analyze their measurements using spin wave theory For most materials this analysis can resolve the microscopic magnetic interactions such as exchange anisotropy and Dzyaloshinskii Moriya interactions Assuming a background in elementary statistical mechanics and a familiarity with the quantized harmonic oscillator this book presents a comprehensive review of spin wave theory and its applications to both inelastic neutron scattering and THz spectroscopy Spin wave theory is used to study several model magnetic systems including non collinear magnets such as spirals and cycloids that are produced by geometric frustration competing exchange interactions or Dzyaloshinskii Moriya interactions Several case studies utilizing spin wave theory to analyze inelastic neutron scattering and THz spectroscopy measurements are presented These include both single crystals and powders and both oxides and molecule based magnets In addition to sketching the numerical techniques used to fit dynamical spectra based on microscopic models this book also contains over 70 exercises that can be performed by beginning graduate students

Terahertz Sensing Technology - Vol 1: Electronic Devices And Advanced Systems Technology Michael S Shur, Dwight L Woolard, William R Loerop, 2003-07-14 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas

Zerstörungsfreie Prüfung von faserverstärkten

Kunststoffen mit der Dauerstrich THz-Spektroskopie Kai Baaske, 2011-06-06 Seit vielen Jahrhunderten weiß der Mensch die Eigenschaften von Werkstoffen, die aus einer Kombination von Fasern und einer Grundsubstanz der Matrix bestehen, für sich zu nutzen. Diese aus der Kombination entstandenen Faserverbundwerkstoffe erlangten jedoch erst in den 1940er Jahren eine industrielle Relevanz, als Glasfasern großtechnisch hergestellt werden konnten. Heutzutage gibt es eine Vielzahl von Faserverbundwerkstoffen, von denen glasfaserverstärkte Kunststoffe mit einer Epoxidharzmatrix einer der bedeutendsten Vertreter sind. In dieser Dissertation wird ein Einblick in die Herstellung von konventionellen Polyolefinen wie z. B. Polyethylen sowie von faserverstärkten Kunststoffen, die diverse Fasermaterialien enthalten können, gegeben. Bei der Herstellung von Bauteilen aus den genannten Halbzeugen spielt die Qualitätssicherung und somit die damit verbundene Messtechnik eine bedeutende Rolle. Hierzu wird ein Überblick über die zurzeit industriell relevanten Messtechniken, die sowohl zerstörend als auch zerstörungsfrei arbeiten, gegeben. An diesem Punkt kann die zerstörungsfreie und kostengünstige Dauerstrich THz Messtechnik als bildgebendes Messsystem mit der im Rahmen dieser Arbeit entwickelten Datenauswertung eingesetzt werden. Das hierfür verwendete System nutzt das Prinzip der Photomischung in einem Halbleitermaterial, welches auf der Oberfläche eine metallisierte Antennenstruktur besitzt. Durch Anwendung einer phasenstarr gekoppelten Sender-Empfängerkombination ist eine kohärente Signaldetektion möglich. Mit Hilfe der gewonnenen sinusförmigen Interferogramme, die teilweise nur aus ein bis zwei Perioden bestehen, können die Amplituden und Phasenwerte jedes Bildpunktes bestimmt werden, aus denen sich Materialparameter wie Brechungsindex und Absorption extrahieren lassen. Weiterführend wird mit dieser Arbeit gezeigt, wie durch die Auswertung des Amplituden- und Phasenverlaufs des Signals auch eine örtliche Bewertung, beispielsweise der Güte von Kunststoffschweißverbindungen oder die Detektion von fehlerhaften Zwischenlagen in GFK sowie dem vorliegenden Faservolumengehalt, möglich ist. Auch die Unterscheidung von Einschlüssen wie Luft oder Metall in Polyethylen ist anhand der Messsignale möglich. Damit dringt das Dauerstrich THz Spektrometer in die Anwendungsgebiete der bildgebenden THz Systeme vor, welche bisher hauptsächlich von kostenintensiven THz Zeitbereichsspektrometern belegt wurden. Die Leistungsfähigkeit des Messsystems wird anhand von industriell relevanten Bauteilen demonstriert. In einem weiteren Schritt wurde eine neuartige, kostengünstige, schmalbandige und durchstimmbare THz Quelle entwickelt, die auf der parametrischen Frequenzkonversion im Speziellen der Differenzfrequenzmischung in einem optisch nichtlinearen Kristall basiert. Dazu befindet sich der Kristall innerhalb der Kavität eines Vertical External Cavity Surface Emitting Lasers (VECSEL). Eine solche THz Quelle bietet die Möglichkeit, speziell bei Frequenzen oberhalb einiger hundert GHz, eine Ausgangsleistung des THz Signals zu erzeugen, die deutlich über der eines Photomischsystems liegt. Das im Rahmen dieser Arbeit aufgebaute Lasersystem besitzt die Eigenschaft, zwei Laserfarben gleichzeitig zu emittieren, was unabdingbar für die intrakavitäre THz Erzeugung ist. Durch weitere Optimierungsschritte der thermischen und optischen Eigenschaften des VECSELs konnte die intrakavitäre optische Leistung so weit verbessert werden, dass durch die Anwendung der parametrischen

Differenzfrequenzerzeugung eine Ausgangsleistung der resultierenden THz Welle bis in den Milliwattbereich gesteigert werden konnte Die entwickelte parametrische THz Quelle stellt eine leistungsstarke, günstige und kompakte Signalquelle für industrielle einsetzbare zerstörungsfreie Prüfsysteme dar Sie bietet speziell bei Frequenzen ab einigen hundert GHz eine leistungsstarke Alternative zu den bestehenden vergleichsweise leistungsschwachen Dauerstrichquellen die auf dem Prinzip der Photomischung basieren

Terahertz Sensing Technology William R. Loerop, 2003 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas Contents THz Technology An Overview P H Siegel Two Terminal Active Devices for Terahertz Sources G I Haddad et al Multiplier and Harmonic Generator Technologies for Terahertz Applications R M Weikle II et al Submicron InP Based HBTs for Ultra High Frequency Amplifiers M Urteaga et al THz Generation by Photomixing in Ultrafast Photoconductors E R Brown Silicon Germanium Quantum Cascade Lasers R W Kelsall Plasma Wave Electronics M S Shur T Ray Sensing and Imaging S P Micken Multistatic Reflection Imaging with Terahertz Pulses T D Dorney et al Readership Undergraduates graduate students academics and researchers in electrical electronic engineering

Solid-Liquid Interfaces Klaus Wandelt, Stephen Thurgate, 2002-11-14 Using combinations of in situ and ex situ experimental methods fundamental and relevant phenomena such as adsorption and desorption of ions and molecules restructuring of surfaces thin film and nanocluster growth and electrochemical reactions on the micrometer scale are addressed The overview includes a wide range of experimental techniques and examples of solid liquid interfaces and aims at stimulating an expansion of this important type of interface science

High-Power Diode Lasers Roland Diehl, 2000-09-04 With Contributions by Numerous Experts

Near-Field Optics and Surface Plasmon Polaritons Satoshi Kawata, 2001-06-20 This up to date overview describes in detail the physics of localized surface plasmon polaritons excited near fine metallic structures and the principles of near field optics and microscopy related to this localized field It also covers wider fields from local spectroscopy to atom manipulation

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 1999

Microwave Materials and Applications, 2 Volume Set Mailadil T. Sebastian, Rick Ubic, Heli Jantunen, 2017-05-08 Die jüngsten Fortschritte im Bereich der drahtlosen Telekommunikation und dem Internet der Dinge sorgen bei drahtlosen Systemen beim Satellitenfernsehen und bei intelligenten Transportsystemen der 5 Generation für eine höhere Nachfrage nach dielektrischen Materialien und modernen Fertigungstechniken Diese Materialien bieten ausgezeichnete elektrische dielektrische und

thermische Eigenschaften und verfügen über enormes Potenzial vor allem bei der drahtlosen Kommunikation bei flexibler Elektronik und gedruckter Elektronik Microwave Materials and Applications erläutert die herkömmlichen Methoden zur Messung der dielektrischen Eigenschaften im Mikrowellenbereich die verschiedenen Ansätze zur Lösung von Problemen der Materialchemie und von Kristallstrukturen in den Bereichen Doping Substitution und Aufbau von Verbundwerkstoffen Besonderer Schwerpunkt liegt auf Verarbeitungstechniken Einflüssen der Morphologie und der Anwendung von Materialien in der Mikrowellentechnik Gleichzeitig werden viele der jüngsten Forschungserkenntnisse bei Mikrowellen Dielektrika und Anwendungen zusammengefasst Die verschiedenen Kapitel untersuchen Oxidkeramiken für dielektrische Resonatoren und Substrate HTCC LTCC und ULTCC Bänder für Substrate Polymer Keramik Verbundstoffe für Leiterplatten Elastomer Keramik Verbundstoffe für flexible Elektronik dielektrische Tinten Materialien für die EMV Abschirmung Mikrowellen Ferrite Ein umfassender Anhang präsentiert die grundlegenden Eigenschaften von mehr als 4000 verlustarmen dielektrischen Keramiken deren Zusammensetzung kristalline Struktur und dielektrischen Eigenschaften für Mikrowellenanwendungen Microwave Materials and Applications wirft einen Blick auf sämtliche Aspekte von Mikrowellenmaterialien und -anwendungen ein nützliches Handbuch für Wissenschaftler Unternehmen Ingenieure und Studenten die sich mit heutigen und neuen Anwendungen in den Bereichen drahtlose Kommunikation und Unterhaltungselektronik beschäftigen

Encyclopedia of Modern Optics Robert D. Guenther, Duncan G. Steel, L. P. Bayvel, 2005 Unparalleled reference work for all researchers in field of Optics Fiber Systems Material Science Atomic and Molecular Physics Laser Physics Covers all the sub fields of Optical Physics as well as related fields as Engineering which impact manufacturing and many practical applications Alphabetically arranged for ease of use cross references to aid in tracking down all aspects of a topic under investigation

Electronic Properties of Novel Materials - Molecular Nanostructures Hans Kuzmany, 2000-11-29 The proceedings of the XIV International Winterschool on Electronic Properties of Novel Materials provides a platform for new developments in the field of molecular nanostructures and their applications Topics included are fullerenes and fullerides fullerene polymers endohedrals nanotube preparation nanotube characterization as well as transport doping and electronic properties of nanotubes and other molecular materials and applications

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Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 2001

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